## HALLETT'S

The Great Engineering Task at Hell Gate.

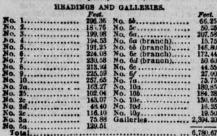
GENERAL NEWTON'S REPORT.

The Work Nearly Completed on a Third of the Estimated Cost.

Necessity for Prompt Appropriations by Congress.

HOW THE BLASTING WILL BE DONE

WASHINGTON, Nov. 21, 1874. The following is the annual report of General Newton, of the Engineer Corps, in charge of the removal of obstructions in the East River, including Hell Gate. The table exhibits the lengths of tunnels and galleries excavated at Hallett's Point at the end of the fiscal year, June 30, 1874:-



The work was suspended for want of funds about the middle of November, 1873. The details of operations for the months of July, August, September, October and part of Novem-

ber, 1873, are as follows. Feet of holes arilled by hand .... Average number of feet of drilled holes to each ou-bic yard..... verage number of pounds of nitro-glycerine to each cubic yard umber of blasts fred. ounds of nitro-glycerine

of holes drilled by each machine per erage feet of holes drilled by each machine pe-thift of eight hours... erage depth of holes, feet. erage cost of linear foot of hole drilled by ma chinas, cenus. 56.9
umber of drills sharpened for Burleigh drills. 12,116
verage cost of sharpening a drill, cents. 5.70
verage number of feet drilled to each sharpening 3.60
xpendture of steel to each toot of hole drilled.

The appropriations for removing obstructions if the East River and Hell Gate are not entirely devoted to the tunnels and galleries at Hallett's Point, a considerable amount having been expended for the construction, maintenance and the operating of the steam-drilling scow, which has been at work, at various periods, upon Diamond and Coentles reefs, in East River, and upon Frying Pan and Pot Rock, in Hell Gate. There are certain rocks in Hell Gate, as Shelldrake and Way's Reef, which should be removed prior to the completion of the reef at Hallett's Point, because the existence of the latter reef would protect the machine from rapid currents, and, what is of e importance, from violent collisions. Coenties Reef, which has been, it is thought, thoroughly broken up, requires but a small sum to plete its removal to a depth of twenty-four feet. The present least depth above the mass broken stone is twenty-one and a half feet. It is economical, likewise, to continue the use of the drilling scow in blasting the channel rocks, on account of the necessary deterioration of the scow from the progress of decay-a process which is equally rapid whether the apparatus is kept at work or not. From the expediency, as just shown, of employing the steam-drilling scow a proportion of each appropriation must necessarrly be diverted from the work at Hallett's Point, and the amount annually granted-\$225,000-is found to be entirely too limited for the economical or rapid progress of the important operations to which this sum is applied. The condition of the work at Hallett's Point is such that there can exist no reasonable doubt of its entire success, and, therefore, another similar work, innded for the removal of the Middle Reef, and including reels, under various designations, as Negro Head, should be early commenced, as by its removal the width of the channel would be in-

Negro Head, should be early commenced, as by its removal the width of the channel would be increased from 600 to 1,200 feet, and the most formidable obstruction to navigation, which exists at Hell Gate, would be obliterated.

ADDITIONAL EXPENDITURE NECESSARY.

For the reasons above given I sak an appropriation of \$600,000 as the sum which could be profitably and economically expended during the year.

The discussion of the last steps to be taken in the removal of the rock has been postponed until the exploration of the whole area of Hallett's Point Ree', by means of tunnels and gaileries, should have been first completed. This is nearly done, and it is proper to state in general terms what now appears to be the most rational mode of procedure. There have been two modes suggested. First, to excavate a chamber or cavity sufficiently large and deep to receive the whole play of the debris, and this mode would require the removal of all the stone plers supporting the roof of the excavation, and the substitution therefor of artificial supports of little burk. This plan, which appears plansble, as well as complete, would, in my opinion, be inapplicable at Hallett's Point. An immense work would remain to be done in taking down the existing large piers under the roof and in sinking considerably the figor lines to provide a sufficient cavity; the volume of which should be, at the very least, one and a half times the soild contents of the roof. The nature of the stratification, in thin verticle sheets, renders the work of removal of the piers subject to grave accidents, due to unexpected results, during the blasting process. If these pieces could be removed by the use of the pick, as was done at Blossom Rock, where the rock was of the dangers for removing the piers would be obviated, again, to carry out the system of picviding a chamber or cavity, the piers, as well as the supports to replace them, must have considerable attitude, in some places thirty-five to formed the about the piers and others have formed the modern o

ports to replace them, must have considerable altitude, in some places thirty-five to forty teet, and this altitude would add incalculably to the dangers incident to their removal.

These difficulties and others have formed the subject of consideration for years past; but until the work of the tunnels and galleries used to explore the whole rock and ascertain its condition should be perfected it did not seem pertinent to enter into the present discussion, which really concerns only the last stage of the work, while, on the other hand, it was probable that a more mature judgment, based upon a longer experience, would result from the course adopted.

THE MODE OF REMOVING ROCK

by providing a receptacle large enough to receive the roof has never been applied. It was partially attempted at Blossom Rock, a very small ree, where, if anywhere, the process would have been applicable, but the engineer, Mr. Von Schmidt, abandoned this scheme before it was half perfected, and after blowing up the rock had torremove the debris with grapples or divers. The expense by such process, too, at Hallett's Point would, in my opinion, be much greater than by the second method, which consists in driving a system of tunnels and galieries having proper drainings, to other points. In a work upon the removal of Blossom Rock, published by the Engineer Department, there are found two projects, the one by General B. S. Alexander, of the Corps of Engineers, by means of the second method before described, and of date anierior to the project of Mr. von Schmidt described in the same volume, and which differed from the former only in removing the piers or walls between the tunnels, and in providing a deep chamber or cavity to receive the debris. The useful ideas of perforating the rock by means of tunnels, at least, was evidently borrowed by him from General Alexander, and Blossom Rock was removed by the latter's process; for Engineer Von Schmidt declined to carry out his own, and head to remove the debris aiterward by artificial means. Prior to

be continually exposed to collisions and might require a mass of material to secure it from such accidents out of all proportions with the rocks to be removed. But in 1889, as soon as sufficient funds were granted for large operations, the coffer dam at Hailett's Point was constructed, preparatory to tunnelling that reef. At this locality, besides the great extent of the rock, there was no danger to be apprehended from collisions.

THE MODE OF BLOWING UP

the reef at Hallett's Point would generally be this:—To periorate from the lande each pier with drill holes entirely or partly through its mass, a sufficient number of these being provided to complete the destruction of the pier when fully charged. The charges in the different holes of the same pier to be connected together, and a fuse composed of a quick explosive to connect the system of charges in each pier with those of the neighboring piers. By this mode the communication of heat or the electric spark to a lew centres of explosion would suffice to propagate it through the whole system, occause the explosion of the connecting fuse would advance more rapidly than the demolition of the rock. In addition to the charges in the piers, others confined in strong vessels might be placed in the inside close against the roof, and be shored from the floors of the galleries, to produce greater effect. The piers might be blown down by charges liaded in contact with them; or un the galleries large charges might be placed, sufficient to effect the d-molition, but much larger amounts of explosives would be required in such process; whereas the proximity of the work to habitations designed to only that a limited amount of charge be used, but that it be so confined as to vertorm local work only. Water tamping by flooding the gaileries will be used to prevent the fung of fragments of rock. The principle of water tamping was, i believe, first used by Mallefert in surface blasting upon the rocks in this harvor in 1851 and 1852 and subsequent years, and all engineers who has th

works at Hallett's Point, and they should be conined in tubes, metallic, guita percha or rubber.
As it may require several weeks to charge the system of holes and their connections, it nitro-glyerine or other compounds of which it forms a
part be used in metallic tubes, danger might result from corrosion or from coupling these together. If hitro-glycerine be used in metallic
tubes it might be best to fill these after they have
been set up and connected.

The difficulties above sketched would not arise
if the tubing be composed of guita percha or

The difficulties above sketched would not arise if the tubing be composed of guita percha or rubber. Besides the advantages already given as pertaining to the latter description of tubing, another, that of freedom from leakage would be more readily secured, and this consideration is a matter of first importance when nitro-giverine or the compounds in which it enters are used, though not so if gun cotton be the explosive. Captain William H. Heuer, Corps of Engineers' Assistant, has continued in the superintendence of the operations at Hallett's Point, where his services have been faithfully and effectively performed.

Assistant, has continued in the subernitencence of the operations at Hallett's Point, where his services have been faithfully and effectively performed.

The operations of this machine were confined to Coenties Reef, commencing work June 25, and being issue up December 15, 1873. The cause of suspension of work on that date was the exhaustion of funds available for the work, and was particularly unjortonate, as but little additional cost was needed to bring the level of the rock to the depth required, and there was apparently nothing further to be done than to remove broken rock. The least depth, which is confined to a small heap of loose stone, is 21% feet at mean low water, and the depth proposed is from 24 to 25 feet. During the period of operations 307 holes, amounting to 2,529 lineal feet, were drilled. The diameter of holes at the top was generally 4% inches and at bottom 3% inches. The amount of nitro-glycerine expended was 17,127 lbs., and this included likewise the charges of 39 surface blasts. The amount of stone grappled and removed from the reet was 2,806 cubic vards, and this included likewise the charges of an united by the surface into the deeper water on the sides of the reef. The operations of the past season were under the superintendence of Mr. J. H. Striedinger, civil engineer, and were faithfully and skillully conducted. During the present season the machine will be put to work upon Shelldrake and Way's Reef, in Hell Gate.

The estimate of January 21, 1867, for the removal of certain obstructions in Hell Gate, Hallett's Point, the Middle Reef and smaller rocks, as Pot Rock. Frying Pan, Way's Reef and Shelldrake, amounted to \$3.693,645. The mode of operation was drilling into the surface of the rocks, blasting and removing the defense of the mode of operation yard was \$48.28—2 rate which is thought to be correct for the operations in question. At a later date, January 3, 1870, a new estimate, based upon the process of tunnelling the larger reefs, as Hallett's Point and the Middle Reef, and re

Beefs at Hell Gate, 234,491 cubic vards, \$20.....\$4,682,820 Diamond and Countles reets, letter of March 2. Total. \$5,139,120

The estimate for Diamond and Coenties reefs, in East River, should here be added, as it did not appear in the other reports cited above, which had reference to Hell Gate only.

In conducting the surveys of the reefs and smaller rocks each sounding was separately located by instruments. The rapidity of the tides caused a suspension of the soundings except during the periods of stack currents.

ount allotted or specifically appropri-3,158 55 Total Balance on hand July 1, 1874.....

The work for the present season will be the continuation of the tunnels and galleries at Hallett's Point and the operations of the steam drilling scow upon Way's Reef and Shelldrake, in Heil

## THE HUDSON RIVER TUNNEL.

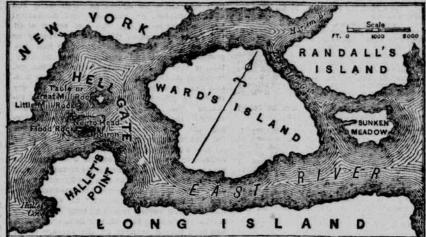
Legal Proceedings Commenced\_An Order Issued by Judge Bedle-Shall the Construction Be Prevented by the Delaware and Lackswanna Company ?

Proceedings have at last been commenced in the courts of New Jersey to prevent the construction of the tunnel under the Hudson River, from Fifteenth street, Jersey City, to some point not yet determined between Christopher and Twentieth streets, New York. Mr. Henry S. White, counsel for the Hudson River Tunnel Company, applied to Judge Bedle for an order to appoint commissioners to assess the damages sustained by the owners of land at Jersey City. In answer to this applica-tion the following order has been issued by Judge Bedle:—

State of New Jerrey, County of Hadson, as. —Whereas on November 21, 1874, the Hudson Tunnel Railroad Company, a corporation organized under and by virtue of an act of the Legislasure of the State os New Jersey entitled "An act to authorize the formation of resilroad corporations and regimize the same," approved April 2, 1873, and an act entitled "An act to extend the time for completion of the liudson Tunnel Railroad," approved April 2, 1874, made application to me, Joseph D. Bedle, a Justice of the Supreme Court of the State of New Jersey, by their petition in writing, setting forth, among other things, under the oath of De Witt C. Haskins, President and agent of the said Judson funnel Railroad Company, that the articles of the association of said company, made and executed in due form, were filed in this office of the Secretary of State on January 25, 1873, and that the said company requires that tract of land known as Piffeenth street, and Bacob. City Survey, Induson conney, N. J., 1861, treet, Ifom Provos street to haw as a North Seventh street, Ifom Provos street to haw as North Seventh street, Ifom Provos street to have as North Seventh stry, and the return of land and amount 1,909 and in length, said land to be used for constructing a tunnel, which railroad track in said tunnel, said tunnel to be about twenty five feet in diameter and at no place to come nearer the surface than fireen feet, and from that to thirty-five feet at the water. That said company also require, during the construction of said tunnel and roadway, the right to occupy a portion of Fitteenth street, dimensions to be a uniform width of fifty feet and 150 feet in length, running backward from the shore line of the Hudson River, westwardly along said street, for the purpose of staking thereon a working shalt thirty feet in disancer and about sixty-five feet in depth, and to erect a temporary building over said shalt in the construction and use of their railroad dompany and the parties of the Morits and Essex Railroad Company, a corporat

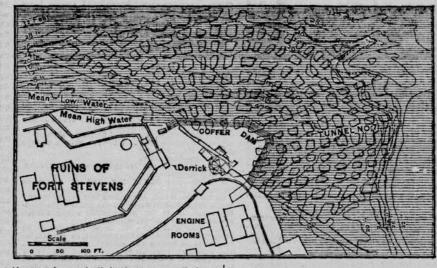
# HELL GATE.

Diagram Showing the Extent of and Method Pursued in the Rock Excavations.





#### PLAN OF EXCAVATIONS



said companies, or, in their absence, respectively on those severally acting as such. J. D. BEDLE, November 21, 1974. Justice Supreme Court. A combination of railroad interests has been formed to prevent the construction of this tunnel. The Erie, the Pennsylvania and the Delaware and Lackawanna have had a conference in regard to their ferry interests, which would be seriously affected by the construction of the proposed tunnel. They have, therefore, determined to form a combination to prevent the construction of the tunnel, and the legal contest has now been commenced.

The papers in the case were served yesterday. The question will involve the right of the city to open streets to the water front after that has been removed by filing in, and the right of any company to prevent access on the ends of streets to the water for sewerage or other purposes. In the meantime the workmen at the tunnel have erected buildings which will enable them to pursue their operations during the winter.

#### THE POSTMASTER GENERAL

The New Minister Receiving High Com pliments from Bostonians-A Little After Dinner Speech on Saturday-Interesting Observations of Russian Life-The Efficacy of One "One Man Power."

BOSTON, NOv. 28, 1874.

Postmaster General Jewell, notwithstanding his reputed activity and usefulness in the important department of the government which President Grant has intrusted to him, manages to find time and inclination to become a sort of hon of the period. His visit to Boston has been character ized by a series of ovations ever since he arrived in the city, and for flattering attentions shown the amiable and solid men the Hub has manifested a feeling of profound gratitude. Immediately upon his arrival, last Friday morning, that highly respectable and eminently annilent organization known as the Board of Trade took him in charge and had a public exhibition of the distinguished visitor at their elegantly carpeted rooms down on State street. The admirable speech which Mr. Jewell made on the occasion was a source of delight to the "solid men" of the town. The day following the eminent Cabinet officer was again the hero of the passing moment, and numerous and hearty were the ovations which were showered upon him. It happened to be Saturday, just the day when the numerous social clubs with which the city abounds have their weekly sit-down, and all of them sought the presence of Mr. Jewell sround their various festive boards. He ran in for a moment at all of the gatherings and was warmly greeted by the admiring hosts, and at the Commercial Club he remained for oinner and made a very happy and entertaining speech. The club met at the Parker House, and the banquet provided was, of course, most bountiful and elegant. Bouquets and wines were not dispensed with. and the company was very fragrant and joly before the festivities were over. The company present included such men as Congressman Pierce, Congressman Stowell, of Virginia; Congressman Williams, of Massachusetts; Mayor Eastman, of Pough-keepsie, and General Burt, the Postmaster now here in Boston.

When the repast was finished Mr. Allen, the president of the cith, alluded in complimentary terms to the distinguished guest who was with them, and in the midst of enthusiastic plaudits. Mr. Jismella, the president of the cith, alluded in complimentary terms to the distinguished guest who was with them, and in the midst of enthusiastic plaudits. He reminded them that their Congress made the laws, passed the appropriations and raised committees to see that the money was used them his induced in furnishing all needed postal facilities. He reminded them that their Congress made the laws, gratitude. Immediately upon his arrival, last Friday morning, that highly respectable and emi-

live as high as 1,000,000, and many others subsist on 500,000.

From this he passed to a most interesting account of railroads in the Russian Empire. The government allows individuals to construct them, guaranteeing five per cent, and if the income falls short the money is taken from the public Treasury to make up the deficit to stockholders. A very large number of railroads are owned and run by the government, and so directly accountable are the officers that no such things as defalcations are dreamed of. In no city was life and timb as safe as in St. Petersburg. It is well lighted, well sewered and has a most efficient police, and all this is done by one man, directly responsible to the one man power. The salary of this most efficient man, who is at the same moment mayor, alderman, council, street commissioner and all minor officers combined, is 500,000 roubles, enough to permit him to live respectable.

#### EDUCATIONAL PROBLEMS.

A Lecture by Carl Schurz on Mental Development-Practical Hints to "Our Girls."

The Hon. Carl Schurz last night delivered a lecture on "Educational Problems," in Plymouth church, Brooklyn, under the auspices of the Frankin Literary Society. There was an audience that more than half filled the house. The lecturer was introduced by Mr. W. Williams, one of the officers of the society.

Mr. Schurz said that he proposed to speak seriously of serious things. In no country is the subject of education discussed more thoroughly than ring to a higher order of education as a specific for crime; we point to an efficient popular education as a remedy. But when the ques-tion arises of what particular method should be adopted, the trouble begins. In discussing a very lew points, he would have little to say that was Education should not teach us only what we are to know, but how to live, labor and to enjoy. The circumstances under which we live are very different to those surrounding our grand-parents. The discoveries of the nineteenth century have made the art of living very difficult; if a man is to succeed in life he must know a great leal more than his forefathers. Yet the time we have to do this is the same. How, then, should the time be employed ? The main thing is to kindle and enforce in the impressible brain the disposition to learn more when the teacher has passed away from his side. The training and discipline of the mind ought to be the first aim of in-

WHAT JOHN STUART MILL DID. What can you do with a mere baby? The putting of John Stuart Mill at three years of age to learn Greek was not an objectionable thing, on the usnally supposed ground that it would destroy the brain or overburden it. The infant brain is a very receptive one. Parents ought to teach their children now to see correctly, how to hear correctly and the art of acquiring the accurate apprecia-tion and reproduction of that which has been seen

dren how to see correctly, how to hear correctly and the art of acquiring the accurate appreciation and reproduction of that which has been seen and heard. How is it, it may be asked, that intelligent people who have eyes snould not be able to see correctly? It is not the eyes at all. It is the education of the perceptive faculities. What is true about seeing is equally true of hearing. Nothing will so lead to usefulness and success in hice, as the conscientous turning over in your mind of what you see and hear. It is empnatically the duty of the mothers, brothers and sisters to practise this on the little ones. What is done with objects ase by the raind. Only let brothers and sisters earnestly try to educate little ones and they will culticate themselves. This is the first branch of education, namely, how to loarn. The child is tend turned over to the teacher. It is, the many thingsy the practice in the school to ducted on the system of year sames. This is conducted on the system of year sames. This is conducted on the system of year sames. This is conducted on the system of year sames. This is conducted on the system of year sames. This is conducted on the system of year sames. This is conducted on the system of year sames. This is conducted on the system of year sames. This is conducted on the system of year sames. This is conducted on the system of year sames. This is conducted on the system of year sames is especially designed for the development of human stupidity. To exercise the memory rus good, but he that rolles only on the memory rus the chance of being a very great dunce. When can you and I say we know such a thing? Not when we have thoroughly comprehended the thing which we have sought to memorize.

The effect of early education is to make the mind active and receptive; in one word, to fit men for that sell education which is the duty of every man and woman. The real difficulty is when parents think that their duty is accomplished if they keep likely children fat, warm and elabor. However, the part

SCIENCE AND HUMOR.

Opening of the Season of the Geographical Society Last Night.

HAYES IN ICELAND.

Pictures of the Polar Regions and Curiosities from Lapland.

A large, highly respectable and evidently much interested audience witnessed the opening of the season of the New York Geographical Society last night at Association Half. Every seat in the body of the hall and the gallery was filled, and the largest proportion of the audience was composed of ladies. The fact was noticeable and remarkable, as the proceedings of schanning podies of the distinction of the Geographical Society are usually supposed to be somewhat of a heavy nature, and the compliment paid the members by the presence of so many young and eminent social auditors was very flattering. It was quite apparent the ladies had beard and read a great deal about Dr. Hayes and Mr. Du Chailiu, and perhaps wanted to hear more of these gentlemen and maybe to have a look at them. At all events they were present last night in full force, and those who expected to be treated to prosy scientific discourses on abstract subjects were agreeably disappointed, for there was a good deal of fun thrown in with stores of information. Both were so blended, too, that the teaching slipped into the mind quite unconsciously, and people on leaving the hall were surprised to seel how much more familiar they had become with Iceland and Lapland through all that laughter. Some gentlemen on the front seats were evidently astonished at the growing interest in the society manifested by the public, by remarks they made during the evening to their companions; but if the society can maintain THE PLEASANT INTEREST

thrown around its stately subjects by Dr. Hayes and Mr. Du Chaillu last night, in future sessions the compass of Association Hall will not long remain sufficient for them. Dr. Hayes' description of the method of chaining the attention and tail of an lcelandic pony was very natural and humorous, and Mr. Du Chaillu's depiction of all the reindeer to be seen when the animals are hunting for moss in the snow, was strikingly realistic and agreeable. Each had a power of attracting and fascinating the listener's attention peculiarly his own, and both were equally strong, although widely different. Dr. Hayes pictured things as they were and he saw them, but he had the tact to choose the humorous view of them and turned that to his audience, making natural recognition readier and more lasting. Much of the bleasure derived from Mr. Du Chaillu's very instructive discourse upon his recent travels in Lapland was due to the intensely real manner in which he describes all ne saw and passed through, his choice of words now and then and his foreign land was due to the intensely real manner in which he describes all ne saw and passed through, his choice of words now and then and his loreign manner. Among the prominent persons present were noticeably Chief Justice Daily, Colonel F. A. Conkling, George Cabot Ward, William Renser, Colonel F. Bailey Meyers, General G. W. Cullem, Judge Wilham E. Curlis, Samuel B. Ruggles, Francis A. Stoat, W. H. H. Moore, James M. Bailey, Professor Theodore W. Dwight, Ehal F. Hull, William Jones Hoppen, Dr. E. R. Stragnick, Isaac Beinfreimer, Noah Davis, Henry Morris, Ed Mathews, S. L. M. Barlow, Peter Cooper, Richard Lathers, G. H. Moore, General James Grant and Dr. Gruening. The following gentlemen were elected fellows in the usual form:—Captain Wilson Deiendorf. James Dodd, Lieutenant Edward Hunter, United States Army; Rev. James M. Buckley, George H. Church, George J. Powers, Lieutenant G. W. Coster, United States Navy; Ira E. Wairaven, John S. Hittell, General. J. B. Kiddoo, United States Army; Henry W. Bookstaver, Benjamin Wood, Benjamin Wood, Jr., Robert L. Fabian, E. R. Meade, George H. Wooster, Harlow M. Hoyt, Austen G. Fox, Walworth Crane, Charles C. Haight, Henry E. Peliew and S. Fenton, Jr. At eight o'clock precisely the attention of the andlence was claimed by Unite Justice Daly, who opened the proceedings, and it was held without cessation during the entire evening. Were a number of trophles and curiosities brought from Lapland by Mr. Du Chailla, which he explained as we wenton, and of which he made a most important cessation during the entire evening. Were a number of trophles and curiosities brought from Lapland by Mr. Du Chailla, which he called a swell oned He had that, he said, because, of course, he was a swell, and a stronger, more workaday one, which, he said, was his "down the side of mountains conveyance"—pieces of trees remarkable for their thickness and age, Lupland skins and costumes and many other strange, cnaracteristic things befonging to the nomadic Laplanders. Chief Justice Daly, in opening the p

enter upon any lengthened account of his lile and services, as it is due to his relation to the society, the country and to the geographical world that a memoir should be prepared by a committee, with adequate resolutions, and submitted on a inture occasion. Mr. Grinnell was one of the lounders of this society. It was to his efforts, together with those of the late George Folsom, that the first step was taken, a quarter of a century ago, for the establishment of the society; and at the meeting at which it was organized, in 1851, he was elected President, a position which, with his characteristic modesty, he declined. But when Mr. Bancroft had eeen chosen President, a position which he held for many years. When the late Dr. E. L. Hawks withdrew from the Presidency Mr. Grinnell consented to accept the position, and served during the years 1862-3, when he declined a re-election and I became his successor. He still continued, however, his active relations with the society, taking the liveliest interest in all its proceedings, and was present last winter at the public reception given by the society to the crew of the Polaris, when he brought with him and unfolded a lag which he had originally sent on the Wilkes expedition to the Antarctic, and which he afterward sent four times to the Arctic in the respective expeditions of De Haven, Kane, Hayes and Hall. It is to him we owe the first American expedition to the Arctic. He furnished and provisioned the two vessels for the expedition of De Haven in search of Sir John Franklin, which started in May, 1850. In conjunction with the late George Peabody he manned and provisioned the brig Advance, commanded by Dr. Kane in the second expedition of 1853. He was a large contributor to the expedition commanded in 1861 by Dr. Hayes, and he aione furnished the means to send Captain Hall on his first journey to Probabler's Straits in 1860 in search of Sir John Franklin. It was also chiefly through his instrumentality that Captain Hall on his first journey to Probabler's Straits in

the coast of Japan, and which bears his name. It is in these words:—

Fair Science on the occan's azure robe

Rill writes his name in picturing the globe.

And so it has been and will be with Henry
Grinnel. In that long line of coast known as
Grinnel. I hand, which beginning in Smith's Sound
extends along the west side of Kennedy's Channel,
his name is imperishably written and will remain
forever a monument to the enterprising spirit,
the benevoient feeling, the broad and generous
aspirations of an American merchant.

As Judge Daly was restring a gentleman in the
nudlence, a member of the society, begged to interrupt him, and proposed that Lieurenant
Wheeler, of the United States Army, a celebrated
explorer, be invited to a seat on the platform,
Judge Daly introduced Lieutenant Wheeler, and
anterward Dr. Hayes, who advanced to the lights
and said:—

and said:MR. PRESIDENT AND PELLOWS OF THE AMERICAN and said:—

Mr. President and Pellows of the Aberican Geographical Society—I am to-night to give a brief preliminary report of my recent journey to Iceland, which was performed last summer, joinily with Mr. Cyrus W. Field, as a representative of the society at the millennial celebration. Some portions of the details of the journey have already been published in the columns of the New York Herald, to which they were jurnished at the request of Mr. Bennett, Upon arriving in London I found Mr. Field aireacy there, but as it was impossible to obtain suitable accommodations on board the regular mail steamer we were to charter one of our own. Our wishes becoming known to the London and Edinburgh Steamship Company, we had placed at our disposition the fine steamer yacht Albion, Captain A. Howling, master. To the company's agent in Leith and to Mr. William Nelson, of the well known publishing firm of Edinburgh, we became indeted for every possible assistance, and but for their generous co-operation we should hardly have had success in our business, We arrived at Reitiavik, the capital of Iceland, in due season to take part in the first ceremonies, August 2. Meanwhile the King of Denmark, Christian IX., had arrived, and Germany, Norway, Sweden and France were there represented by ships of war. The occasion was one of unanticipated dignity and ceremony. The people were, however, impressed with the importance of the occasions that the display was not in excess of

their expectations, and they bore their part in wish the traditional and high breeding of their Norse ancestry. Our credentials being delivered to the proper authorities, we were courteously received, and situations were assigned us in accordance with rules previously laid down loss the reception of the representatives of harned societies. These were always near His Majesty the King, the Governor of the island and the Mayor of Reikiavik. The formal occasion embraced divine service, the cathedral rival proceedings at Thingvalla and two public banquets. In active the mission of the signal of the cathedral rival proceedings at Thingvalla and two public banquets. An active hymn, called "focland's Thousand Years," was sung by the entire congregation with marvellous effect. The music was fine, the voiced excellent, and the occasion being one of deep feeling to every feelander it is not surprising that there was exhibited a deep emotion. Never before have a people celebrated the thousandth anniversary of an organized government, substantially following the organic plan, and certainly it would be impossible, at the present time, for any other people to celebrate, in this sense, its millennial, and claim consistently to preserve their language, laws and social customs practically unimpaired by the lapse of time. After the church services the King, at his banquet, arose and drank prosperity to the future officeland; a hundred cannon echoed the sentiment, and, amid the wildest enthusiasm, the new constitution was proclaimed. Tris gives feeland practical freedom from Denmark, and no doubt it will tend to greatly develop the country, which possesses many resources needing cultivation to make them profitable. At present the chief exports are codish, salmon and wool. While the cultivation of these industries does not create any large degree of individual wealth they are productive of general competency. I found dance, luxures were not uncommon, and the people were happy and content. The school system is most admirable, and th The bookstore was crowded whenever 1 visuals. Crime is almost unknown accept in a large and an occupant accept maker and his having had an accupant accept maker and his having had an accupant accept maker and his having had an accept the king accept the state and surrounded by little gardens, in which are cuitivated posatoes, cabbages and other common garden vegetables. None of the cereais, not even barley and oats, will ripen, though it is said they were grown there in former times. The trees mentioned in the ancient Sagas have wholly disappeared, it we except the low stunted birch and willow bushes, which, however, are not found near the coast. The times readed, even for the small farm houses of the interior, is brought from Norway. Yet the bush supplies a sufficiency of their interior, is brought from Norway. Yet the bush supplies as unficiency of their interior, is brought from Norway. Yet the bush supplies as sufficiency of their interior, is brought from Norway. Yet the bush supplies as sufficiency of their interior, is brought from Norway. Yet the bush supplies as sufficiency of their interior, is brought from Norway. Yet the bush supplies of English coal. The prosent aspect of the island down is that of a description of the supplies of their interior, is brought from Norway. The transfer of their interior, is brought from the supplies of highly not the supplies of highly not have been accepted as the supplies of highly not have been supplied to the supplies of highly not have been and the supplies of highly not have and highly not have and highly not h said, and I was a inserman too for a whie, but I didn't like it. Alter explaining the nature of the government of the people he showed the state of the country, asying there were trees twenty leet in diameter at 70 degrees north latitude. Lapland is the country of the reinideer, and its people are nomads. They live a good deal in tents, but those tents are made of wool and not a bit like those tents are made of wool and not a bit like those that see in some of our weekly illustrated papers. I had an idea, before I went to Lapland, that the people were dark and something like the Esquimaux, but I found I was mistaken when I got there. They are fair and ranging in size from four set four to four feet six. The women, when young, are very beantiful, but when old are ugly. This comes of their cheek bones, which grow up or protrude more as they age. All the Laplanders can read, and all go to church. They have a minister and schoolmaster in every district in Norway and Sweden, and you see the result in the people. Mr. Du Chaillu then pointed out on a map the district he had travelled over in those countries, and at the end of his address put on the Laplanders' dress for the cenefit of the audience, who seemed not only surprise, but delighted. The evening entertainment closed with a series of views of Iceland, which Dr. Hayes explained as they were shown.

## OCEANIO LIPE.

A meeting was held last evening at the Lyceum of Natural History, No. 64 Madison avenue, at which a very interesting collection of some of the rarer forms of oceanic life was exhibited. These plained to the audience by Captain J. H. Mortimer, who has made their collection in the mid-A tlantic Ocean a specialty, but, unfortunately, that gen tieman was iil. In his absence, at the request of Mr. J. S. Newberry, the President, Professor Martin explained the names of the various small creatures of the deep, and the specimens were handed round for examination. The greatest interest was evinced in the rare collection, especially in the pteropods, and it was explained to the meeting that the collection is intended for the Museum in the Central Park. Captain Mortimer, who commands one of the ships of the Black Bailine, trading between New York and Liverpool, has had the capin of his vessel fitted up as a museum of these curiosities, and is constantly adding to the collection. He has also presented a large assortment of them to the Liverpool Museum. gen tleman was ill. In his absence, at the request

Lecture By Rev. T. De Witt Talmage. The Rev. T. De Witt Talmage lectured last even-ing in the Presbyterian church, in Spring street, near Varios on "The People we Meet." Consider-ing the inclement weather and the condition of the streets there were a goodly number present. Among some of the people we meet he mentioned the man of pad manners and claimed that all the clothes a tailor's goose could hatch out in a month of Sundays could never

## A VICTIM OF GRIEF.

NEW YORK, NOV. 23, 1874

To THE EDITOR OF THE HERALD:-Sunday's HERALD, you narrate a conversation with his landlord in which Bellew is stated to have been lately in our employ and coming to us for money we owed him. He had worked for us, make. money we owed him. He had worked for us, making sales on commission, and though his account was overdrawn more than \$200 we gave him money to bury his wife and last week lent him a small sum. After his death we gave his little boy money for his passage home to New Haven. So, you see, we are not guilty of the heartless conduct which might be inferred from the story of this unfortunate man's death as published. Yours, truly, FRANK BOEHM & CO.